

1/1 - (C) WPI / DERWENT
AN - 1994-259761 [32]
AP - JP19920344932 19921224
PR - JP19920344932 19921224
TI - Purificn. of nitrogen-containing polluted water - by adding urea and treating biologically
IW - PURIFICATION NITROGEN CONTAIN POLLUTION WATER ADD UREA TREAT BIOLOGICAL
PA - (HOND) HONDA MOTOR CO LTD
PN - JP6190396 A 19940712 DW199432 C02F3/34 005pp
IC - C02F3/12 ; C02F3/34
AB - J06190396 To biologically treat N-containing polluted water by adding urea, the urea is added in such an amount that the weight ratio of N to BOD in the polluted water is 0.5-2 : 100.
- ADVANTAGE - N-contg. polluted water is purified in higher efficiency without investment for any new device. Water quality of treated water is improved. Cost for the treatment is reduced.
- In an example, polluted water from an electrodepositing step containing easily decomposable NH₄-N and hardly decomposable organic nitrogen was stored in a raw water tank. As the waste water was weak alkaline, it was pumped to a neutralising tank to neutralise it. 1st treated water obtained after treating in a pressurising floating tank was stored in a 1st treated water tank. BOD, COD and total P concentration in the 1st treated water were measured. The 1st treated water was fed for biological treatment in an aerating tank comprising a high load aerating tank and a normal aerating tank. Bacteria concentration was kept at 5000-5500 mg/l. Urea was added as nutrient of the bacteria to the aerating tank from a urea tank in such an amount that N amount added was 0.5-2 to 100 of BOD in the 1st treated water. 2nd treated water obtained after decomposition by the bacteria was fed to an aggregation pond through a 2nd aggregation tank. Treated water was released to a river after checking BOD, COD, organic nitrogen concentration and NH₄-N concentration. Sludge from the pond after the aerating tank was returned to the aerating tank. (Dwg.0/3)